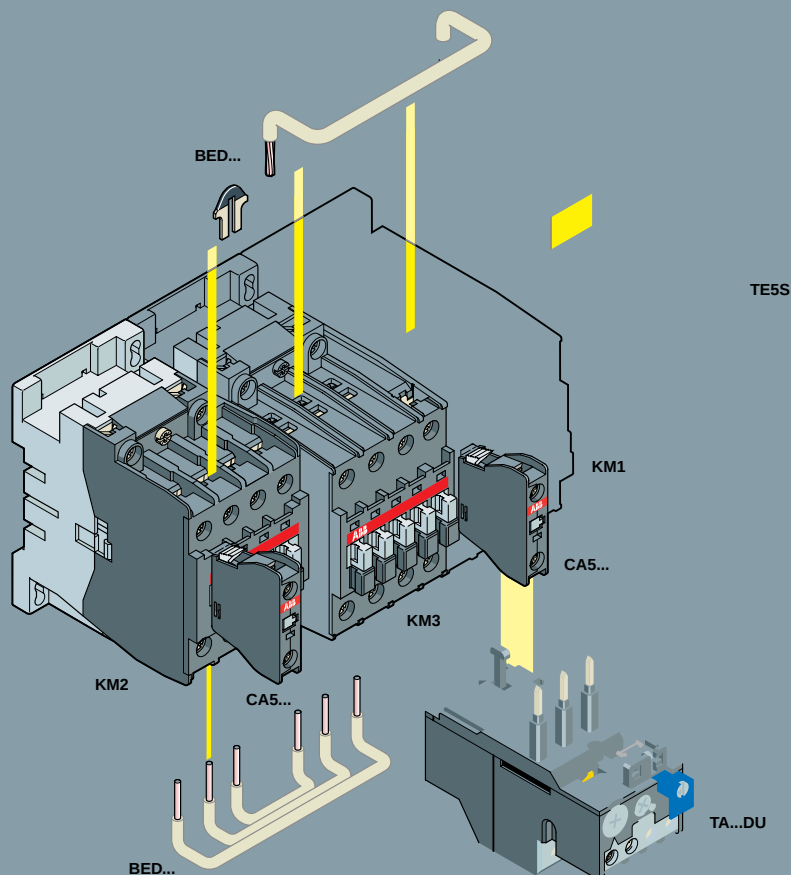


Star-Delta Starters, Open Type Version

Protection by Thermal O/L Relay



YKA...-30 version

Starters with electrical interlock

>> YKA...-30 Star-delta starters	page 2/1
>> Star-delta starters in kit form	page 2/8

Starters with mechanical and electrical interlock

>> YKA...-30E Star-delta starters	page 2/10
>> Star-delta starters in kit form	page 2/16

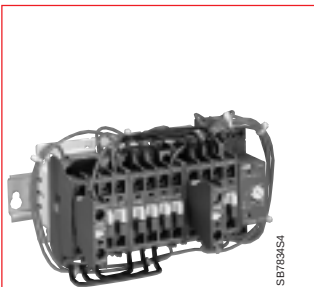
YKA ..-30, YDA ..-30 Star-Delta Starters

Open Type Version

Protection by Thermal O/L Relay

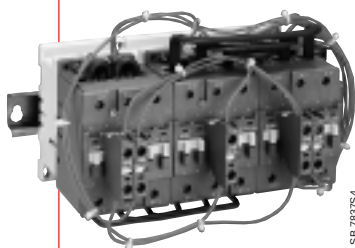


2



YKA 16-30

SB7834S4



YKA 75-30

SB 7837S4



YDA 95-30

YDA95-30

Application

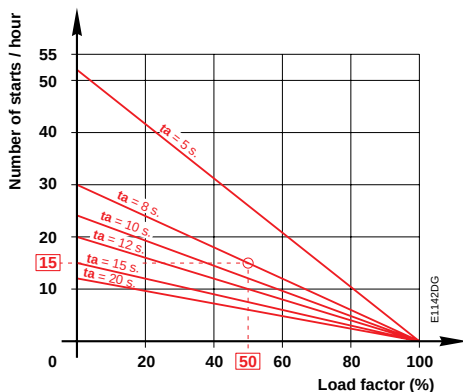
Starters for the control of three-phase asynchronous motors:

- up to an operational voltage of 690 V, 50 or 60 Hz,
- in compliance with standard IEC 947-4-1,
- air temperature close to contactors $\leq 55^{\circ}\text{C}$.

Maximum duty as per the chart below.

(Switching frequency/hour, according to acceleration time and load factor).

Respect of the following conditions enables utilization of the starter without excessive overheating of the connections or nuisance tripping of the thermal O/L relay.



Example:

- Switching frequency = **15 starts/hr**
- Acceleration time "ta" = **7s** (use the 8 s curve)
- Maximum load factor = **50 %**

This corresponds to a 4-minute operating cycle (15 starts/hr) with 7 seconds acceleration, 2 minutes operation and 2 minutes rest.

Description

Each starter is delivered assembled, bare, cabled by us and contains:

- 1 KM1 "line" contactor,
- 1 KM2 "star" contactor,
- 1 KM3 "delta" contactor,
- the hold-in contacts,
- the electrical interlocking contacts for both the "star" and "delta" contactors,
- the space for the thermal O/L relay (direct mounting).

The thermal O/L relay must be supplied separately for you to mount and connect in the "delta" circuit. The **setting current** value of the thermal O/L relay must be equal to **motor rated current I_n x 0.58**; choose the thermal O/L relay with the right setting range for the setting current in question.

- 1 TE5S electronic timer with time lapse,
- the power circuit connections,
- the control circuit connections.

YKA 9 to YKA 26 : The assembly is mounted on a 35 x 7.5 mm mounting rail acc. to EN 50022

YKA 30 to YKA 75 : The assembly is mounted on a 35 x 15 mm mounting rail acc. to EN 50022

YKA 95 and YKA 110 : The assembly is supplied on a plate

- Degree of protection:
- IP20 for the main terminals of contactors A 9 ... A 40
 - IP10 for the main terminals of contactors A 50 ... A 110
 - IP20 for the control circuit terminals.

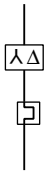
>> Ordering details page 2/2
 >> Starters in kit form page 2/8
 >> Wiring diagrams page 2/4

>> Accessories page 2/2
 >> Dimensions page 2/5

YKA ...-30, YDA ...-30 Star-Delta Starters

Open Type Version

Protection by Thermal O/L Relay



Ordering details - (Order the thermal O/L relay separately, see page 2/3)

Rated operat. current AC-3 400 V A	Power AC-3 4-pole motor - 50/60 Hz			Short-circuit protection *		Type	Order code	Weight in kg
	380 V	415 V	690 V	Type 1 co-ordination as per EN 60947-4-1 / IEC 947-4-1 380-400 V				
	kW	kW	kW	aM fuses	gG fuses	State control voltage [...]	to be completed with control voltage code □	Packing 1 piece
15.5	7.5	7.5	5.5	16	25	YKA 9-30 [...]	1SBK 142 301R8 □ 00	1.612
22	11	11	7.5	25	35	YKA 12-30 [...]	1SBK 162 301R8 □ 00	1.612
30	15	15	11	32	50	YKA 16-30 [...]	1SBK 182 301R8 □ 00	1.612
44	22	22	15	50	63	YKA 26-30 [...]	1SBK 242 301R8 □ 00	2.119
50	25	25	18.5	63	100	YKA 30-30 [...]	1SBK 282 301R8 □ 00	3.124
72	37	37	37	80	100	YKA 40-30 [...]	1SBK 322 301R8 □ 00	3.135
85	45	45	45	100	125	YKA 50-30 [...]	1SBK 352 301R8 □ 00	4.130
105	55	55	59	125	160	YKA 63-30 [...]	1SBK 372 301R8 □ 00	4.136
119	63	70	63	160	200	YKA 75-30 [...]	1SBK 412 301R8 □ 00	4.477
140	75	75	90	160	200	YDA 95-30 [...]	1SFK 432 302R8 □ 00	7.000
170	90	100	132	200	250	YDA 110-30 [...]	1SFK 452 302R8 □ 00	7.000

* For other short-circuit protection devices, please consult our co-ordination tables

Control circuit

Designed for "separate control supply":

The star-delta starters are delivered with their control circuit not connected to the power circuit.

The control circuit supply is to be connected according to the wiring diagram when putting the starter into service.

Please consult us for "direct control supply".

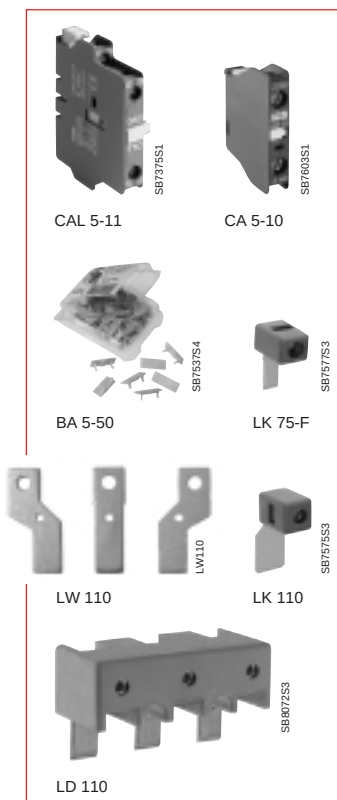
Control voltage code

Voltage V 50 Hz	V 60 Hz	Code 8 □	Control circuit
24	24	1	must be connected
110	110 ... 120	4	– to a separate
110 ... 115	115 ... 120	9	supply
220 ... 230	230 ... 240	0	– or phase-to-phase
230 ... 240	240	8	– or phase-to-neutral
380 ... 400	400 ... 415	5	
400 ... 415	415 ... 440	6	
415 ... 440	440	7*	

* Unsuitable for YKA 50-30 ... YKA 75-30 starters.

Ordering details, contactors accessories

Description	Type	Order code	Pack- ing	Weight in kg
Function markers (50 pieces)	BA5-50	1 SBN 11 0000 R1000	box	0.017
1 x "N.O." auxiliary contact block	CA5-10	1 SBN 01 0010 R1010	10	0.014
1 x "N.C." auxiliary contact block	CA5-01	1 SBN 01 0010 R1001	10	0.014
"N.O."+"N.C." side-mnted cont. blk	CAL5-11	1 SBN 01 0020 R1011	2	0.050
Control lead terminals (A 50 ... A 75) Right/left connection	LK 75-L	1 SBN 07 3552 R1003	2	0.006
Front connection	LK 75-F	1 SBN 07 3552 R1002	2	0.006
Control lead terminals (A 95, A 110) Right/left connection	LK 110	1 SFN 07 4352 R1000	2	0.010
Add. terminal block (A 95 / A 110)	LD 110	1 SFN 07 4308 R1000	1	0.150
Terminal enlargement pieces (set of 3 bars) for A 95 / A 110	LW110	1 SFN 07 4307 R1000	1	0.100



>> Starters in kit form page 2/8
>> Wiring diagrams page 2/4

>> Thermal O/L relay page 2/3
>> Dimensions page 2/5

YKA ..-30, YDA ..-30 Star-Delta Starters Open Type Version Protection by Thermal O/L Relay

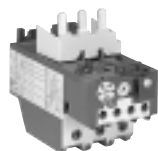


2



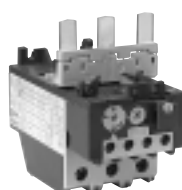
TA 25 DU

SB7386S2



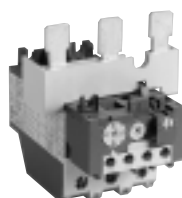
TA 42 DU

SB7361S3



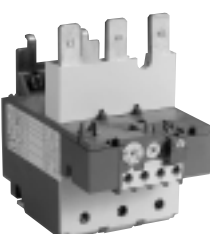
TA 75 DU

SB7387S2



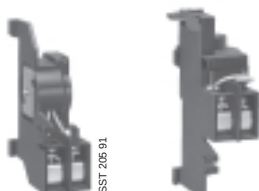
TA 80 DU

SB7399S3



TA 110 DU

SB7398S4



DS 25 A

DR 25 A

SST 206 91

SST 204 91

Coil voltage code for DS 25-A/DR 25-A

Voltage (V) 50/60 Hz	Coil voltage code	
24	1	
48	2	
110	3	
220/380	5	
500	6	

Ordering details, thermal O/L relay

Starter	Setting range (1)		Type	Order code	Weight in kg Packing 1 piece
	A	... A			
YKA 9-30	0.1	... 0.16	TA 25 DU 0.16	1SAZ 21 1201 R1005	0.150
to	0.16	... 0.25	TA 25 DU 0.25	1SAZ 21 1201 R1009	0.150
YKA 30-30	0.25	... 0.4	TA 25 DU 0.4	1SAZ 21 1201 R1013	0.150
	0.4	... 0.63	TA 25 DU 0.63	1SAZ 21 1201 R1017	0.150
	0.63	... 1.0	TA 25 DU 1.0	1SAZ 21 1201 R1021	0.150
	1.0	... 1.4	TA 25 DU 1.4	1SAZ 21 1201 R1023	0.150
	1.3	... 1.8	TA 25 DU 1.8	1SAZ 21 1201 R1025	0.150
	1.7	... 2.4	TA 25 DU 2.4	1SAZ 21 1201 R1028	0.150
	2.2	... 3.1	TA 25 DU 3.1	1SAZ 21 1201 R1031	0.150
	2.8	... 4.0	TA 25 DU 4.0	1SAZ 21 1201 R1033	0.150
	3.5	... 5.0	TA 25 DU 5.0	1SAZ 21 1201 R1035	0.150
	4.5	... 6.5	TA 25 DU 6.5	1SAZ 21 1201 R1038	0.150
	6.0	... 8.5	TA 25 DU 8.5	1SAZ 21 1201 R1040	0.150
	7.5	... 11	TA 25 DU 11	1SAZ 21 1201 R1043	0.150
	10	... 14	TA 25 DU 14	1SAZ 21 1201 R1045	0.150
	13	... 19	TA 25 DU 19	1SAZ 21 1201 R1047	0.150
	18	... 25	TA 25 DU 25	1SAZ 21 1201 R1051	0.150
	24	... 32	TA 25 DU 32	1SAZ 21 1201 R1053	0.170
YKA 40-30	18	... 25	TA 42 DU 25	1SAZ 31 1201 R1001	0.330
	22	... 32	TA 42 DU 32	1SAZ 31 1201 R1002	0.330
	29	... 42	TA 42 DU 42	1SAZ 31 1201 R1003	0.330
YKA 50-30	18	... 25	TA 75 DU 25	1SAZ 32 1201 R1001	0.330
to	22	... 32	TA 75 DU 32	1SAZ 32 1201 R1002	0.330
YKA 75-30	29	... 42	TA 75 DU 42	1SAZ 32 1201 R1003	0.330
	36	... 52	TA 75 DU 52	1SAZ 32 1201 R1004	0.330
	45	... 63	TA 75 DU 63	1SAZ 32 1201 R1005	0.330
	60	... 80	TA 75 DU 80	1SAZ 32 1201 R1006	0.330
YKA -95-30	29	... 42	TA 80 DU 42	1SAZ 33 1201 R1003	0.360
and	36	... 52	TA 80 DU 52	1SAZ 33 1201 R1004	0.360
YKA 110-30	45	... 63	TA 80 DU 63	1SAZ 33 1201 R1005	0.360
	60	... 80	TA 80 DU 80	1SAZ 33 1201 R1006	0.360
YKA 95-30 and	65	... 90	TA 110 DU 90	1SAZ 41 1201 R1001	0.750
YKA 110-30	80	... 110	TA 110 DU 110	1SAZ 41 1201 R1002	0.750

(1) The setting current value is the motor rated current I_n x 0.58

Example: For a motor rated current of 30 A, the setting current will be $30 \text{ A} \times 0.58 = 17.4 \text{ A}$.

Choose the thermal O/L relay TA 25 DU 19 - setting range 13 ... 19 A.

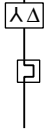
Ordering details, thermal O/L relay accessories

Description	Type	Order code	Pack- ing	Weight in kg
	State control voltage ☐	to be completed with control voltage code ☐		
Function markers (50 pieces)	BA5-50	1 SBN 11 0000 R1000	box	0.017
Remote tripping coil for TA 25 DU	DS 25-A- ☐	1 SAZ 20 1501 R000 ☐	1	0.100
Remote resetting coil for TA 25 DU	DR 25-A- ☐	1 SAZ 20 1504 R000 ☐	1	0.100

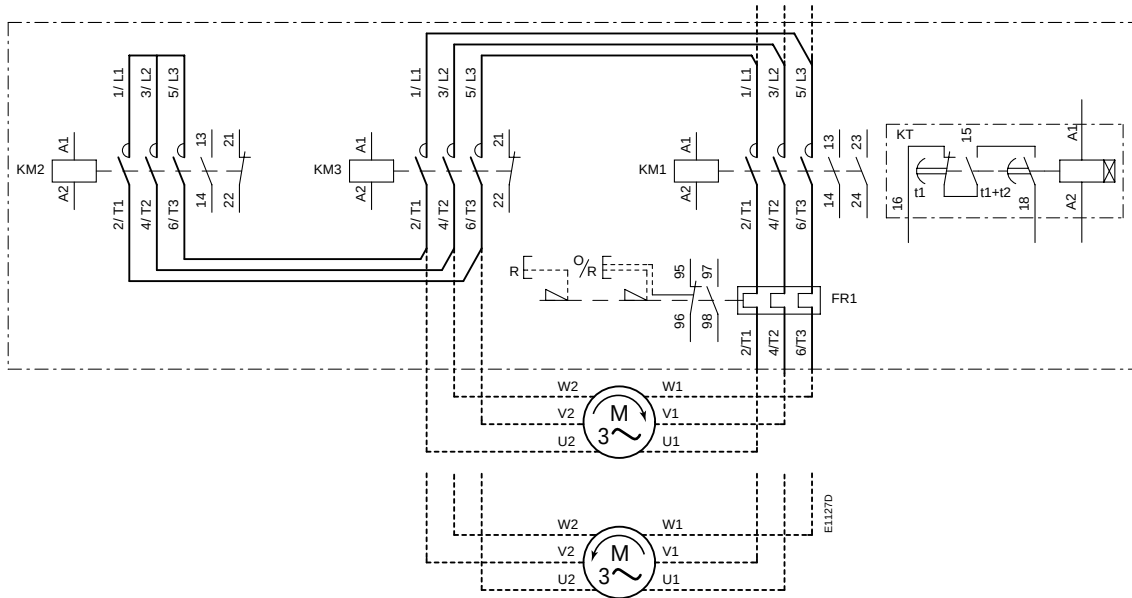
YKA ...-30, YDA ...-30 Star-Delta Starters

Open Type Version

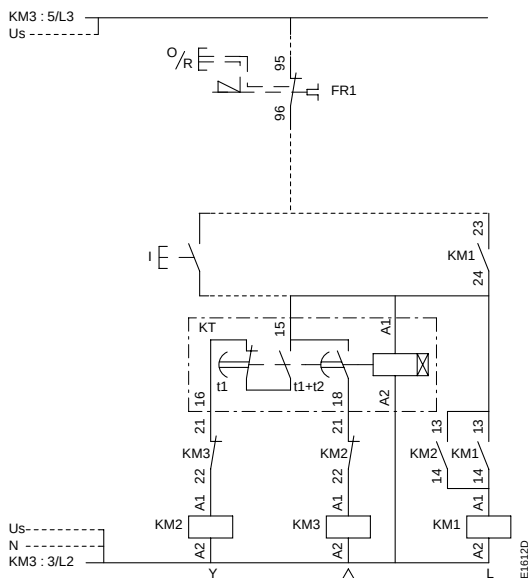
Protection by Thermal O/L Relay



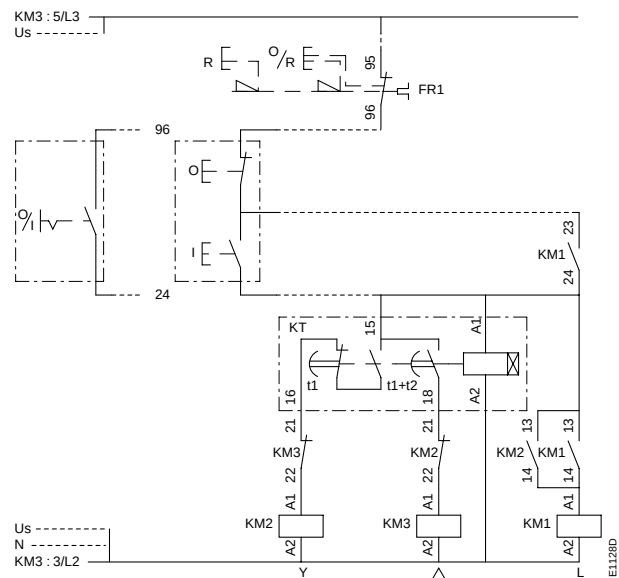
Wiring Diagrams



Power Circuit

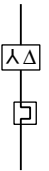


Local Control

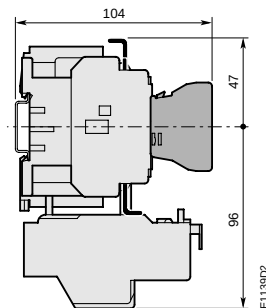
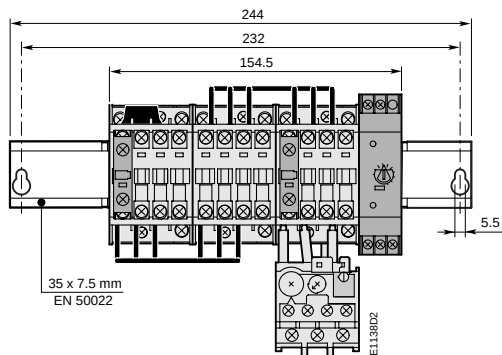


Remote Control

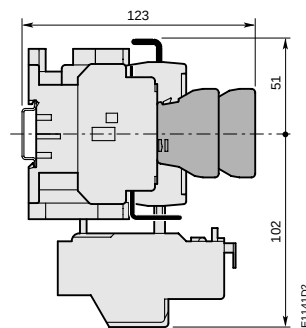
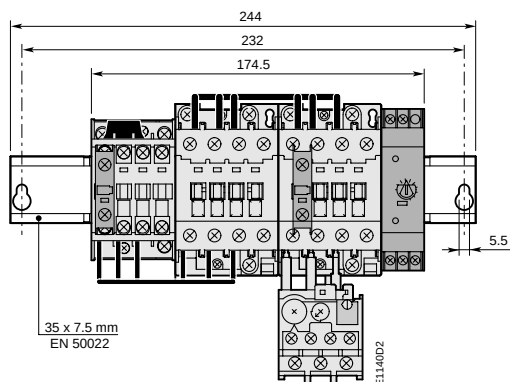
YKA ..-30, YDA ..-30 Star-Delta Starters Open Type Version Protection by Thermal O/L Relay



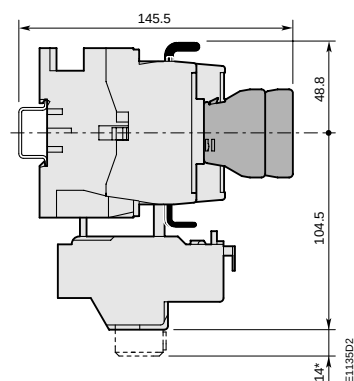
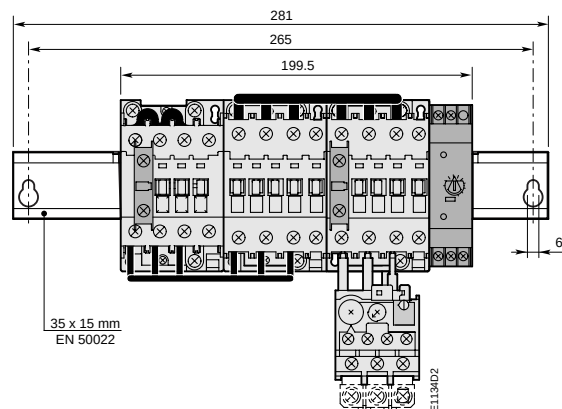
Dimensions (in mm)



YKA 9-30 ... YKA 16-30 + TA 25



YKA 26-30 + TA 25



YKA 30-30 + TA 25

* for TA 25 DU 32 only

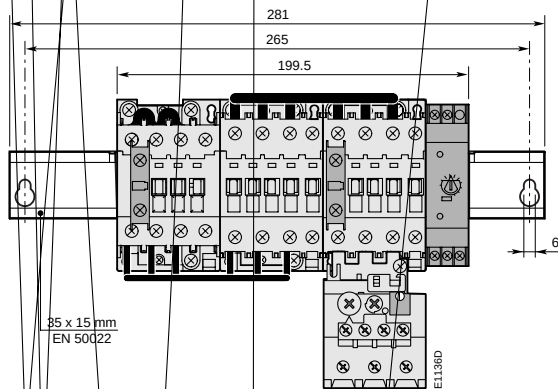
YKA ...-30, YDA ...-30 Star-Delta Starters

Open Type Version

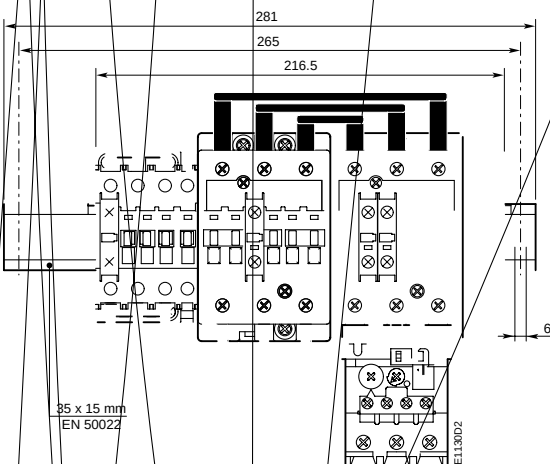
Protection by Thermal O/L Relay



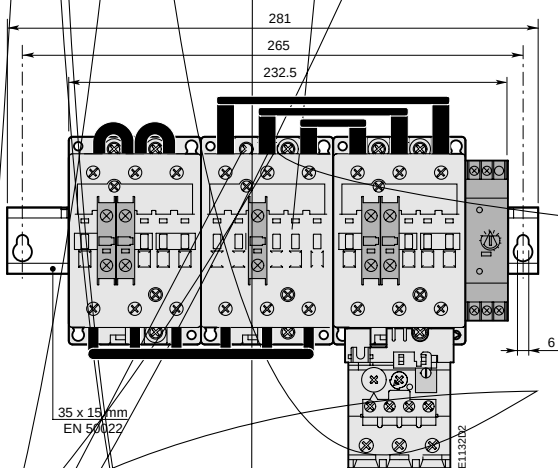
Dimensions (in mm)



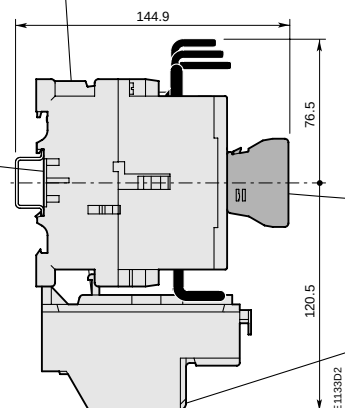
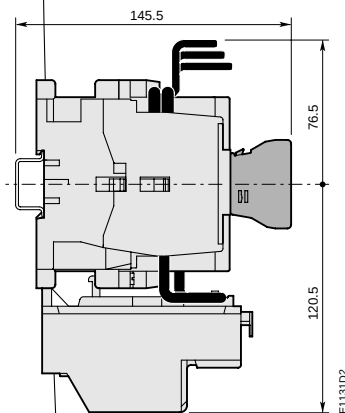
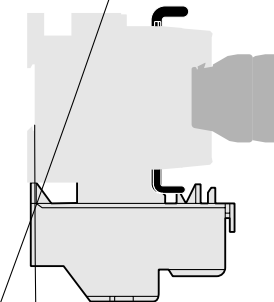
YKA 40-30 + TA 42



YKA 50-30 ... YKA 63-30 + TA 75



YKA 75-30 + TA 75

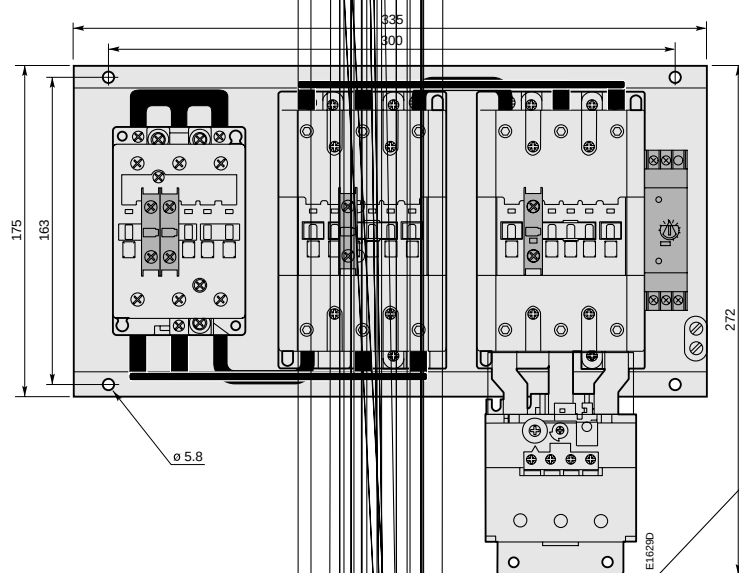


YKA ..-30, YDA ..-30 Star-Delta Starters

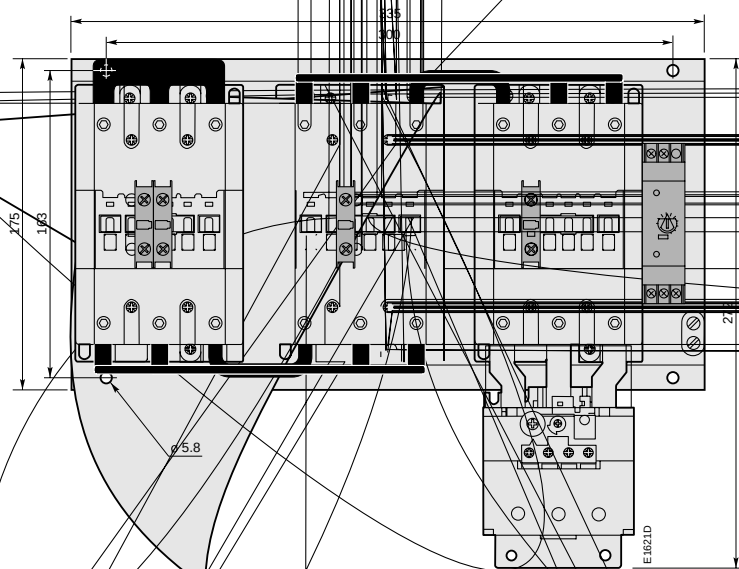
Open Type Version

Protection by Thermal O/L Relay

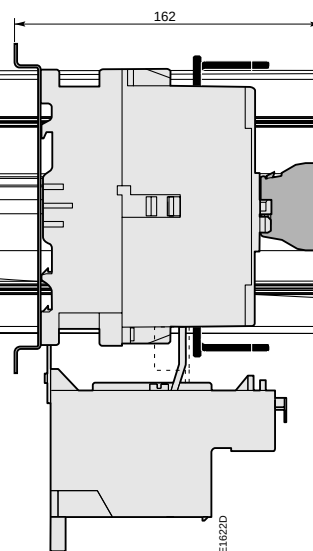
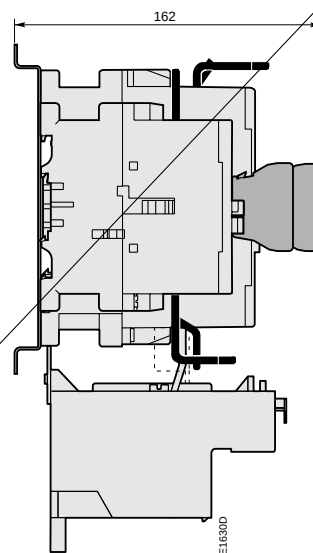
Dimensions (in mm)



YDA 95-30 + TA 110



YDA 110-30 + TA 110



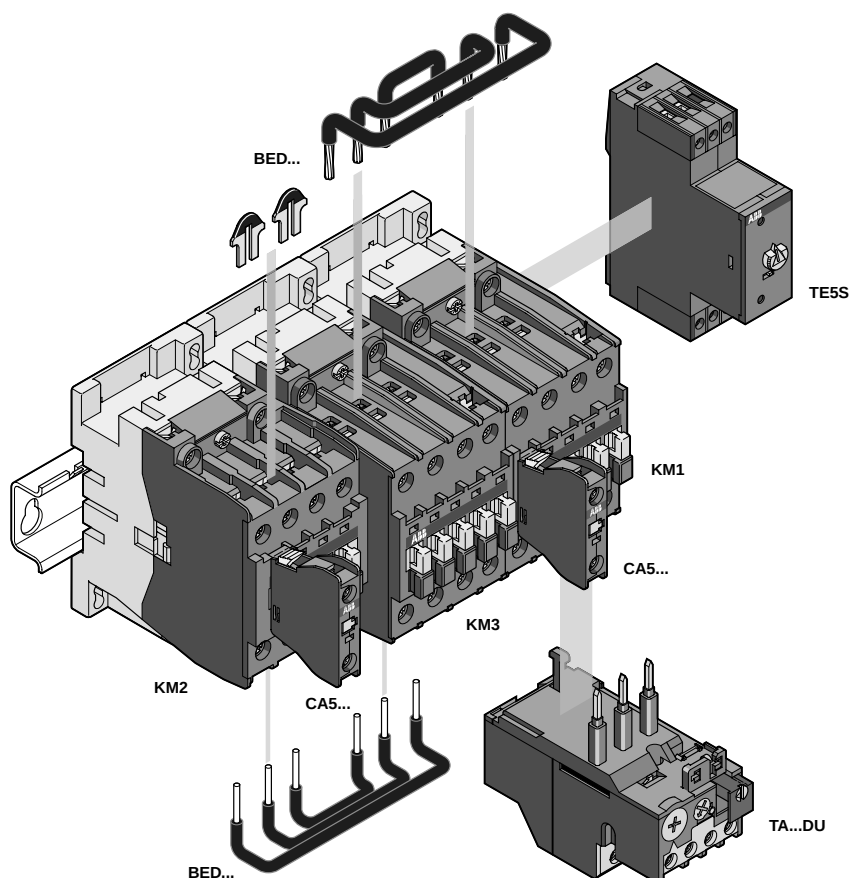
Star-Delta Starters, in Kit Form

Open Type Version

Protection by Thermal O/L Relay



Components for starters in kit form (ordering details on next page)



E1121D2

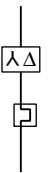
Details of power connections

BED 16-1 2.5 mm² cable insulated rigid, solid copper	BED 26-1 4 mm² cable insulated rigid, solid copper	BED 40-1 (a) + (b) 4 mm² cable (c) 10 mm² cable insulated rigid stranded copper	BED 50-1 / BED 75-1 (a) 16 mm² cable (b) 6 mm² cable insulated rigid stranded copper (c) 8 x 3 mm bar insulated copper	BED 95 / BED 110 12 x 3 mm bar insulated copper
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Star-Delta Starters, in Kit Form

Open Type Version

Protection by Thermal O/L Relay



2

Contactors and thermal O/L relay

Rated operat. current AC-3	Power AC-3 4-pole motor 50/60 Hz		Line contactor	△ Contactor	△ Contactor	Thermal O/L relay (1) FR1 (see page 2/3)	Required accessories (see table below)
	Nominal voltage V	kW	KM1	KM2	KM3	Type	Reference letter
			Type and state coil voltage : ☐ ☐			Order code	
			Order code to be completed with coil voltage code : ☐ (see page 2/2)			Order code	
A			A 9-30-10 ☐ 1SBL 14 1001 R8 ☐ 10	A 9-30-01 ☐ 1SBL 14 1001 R8 ☐ 01	A 9-30-01 ☐ 1SBL 14 1001 R8 ☐ 01	TA 25 DU ☐ 1SAZ 21 1201 R10 ☐	A
15.5	380-400	7.5					
14	415	7.5					
6.7	690	5.5					
22	380-400	11	A 12-30-10 ☐ 1SBL 16 1001 R8 ☐ 10	A 9-30-01 ☐ 1SBL 14 1001 R8 ☐ 01	A 12-30-01 ☐ 1SBL 16 1001 R8 ☐ 01	TA 25 DU ☐ 1SAZ 21 1201 R10 ☐	A
21	415	11					
9	690	7.5					
30	380-400	15	A 16-30-10 ☐ 1SBL 18 1001 R8 ☐ 10	A 12-30-01 ☐ 1SBL 16 1001 R8 ☐ 01	A 16-30-01 ☐ 1SBL 18 1001 R8 ☐ 01	TA 25 DU ☐ 1SAZ 21 1201 R10 ☐	A
28	415	15					
13	690	11					
44	380-400	22	A 26-30-10 ☐ 1SBL 24 1001 R8 ☐ 10	A 16-30-01 ☐ 1SBL 18 1001 R8 ☐ 01	A 26-30-01 ☐ 1SBL 24 1001 R8 ☐ 01	TA 25 DU ☐ 1SAZ 21 1201 R10 ☐	B
40	415	22					
17.5	690	15					
50	380-400	25	A 30-30-10 ☐ 1SBL 28 1001 R8 ☐ 10	A 26-30-01 ☐ 1SBL 24 1001 R8 ☐ 01	A 30-30-01 ☐ 1SBL 28 1001 R8 ☐ 01	TA 25 DU ☐ 1SAZ 21 1201 R10 ☐	C
47	415	25					
21	690	18.5					
72	380-400	37	A 40-30-10 ☐ 1SBL 32 1001 R8 ☐ 10	A 26-30-01 ☐ 1SBL 24 1001 R8 ☐ 01	A 40-30-01 ☐ 1SBL 32 1001 R8 ☐ 01	TA 42 DU ☐ 1SAZ 31 1201 R10 ☐	C
66	415	37					
42	690	37					
85	380-400	45	A 50-30-00 ☐ 1SBL 35 1001 R8 ☐ 00	A 30-30-01 ☐ 1SBL 28 1001 R8 ☐ 01	A 50-30-00 ☐ 1SBL 35 1001 R8 ☐ 00	TA 75 DU ☐ 1SAZ 32 1201 R10 ☐	D
80	415	45					
49	690	45					
105	380-400	55	A 63-30-00 ☐ 1SBL 37 1001 R8 ☐ 00	A 40-30-01 ☐ 1SBL 32 1001 R8 ☐ 01	A 63-30-00 ☐ 1SBL 37 1001 R8 ☐ 00	TA 75 DU ☐ 1SAZ 32 1201 R10 ☐	D
96	415	55					
66	690	59					
119	380-400	63	A 75-30-00 ☐ 1SBL 41 1001 R8 ☐ 00	A 50-30-00 ☐ 1SBL 35 1001 R8 ☐ 00	A 75-30-00 ☐ 1SBL 41 1001 R8 ☐ 00	TA 75 DU ☐ 1SAZ 32 1201 R10 ☐	E
126	415	70					
70	690	63					
140	380-400	75	A 95-30-00 ☐ 1SFL 43 1001 R8 ☐ 00	A 75-30-00 ☐ 1SBL 41 1001 R8 ☐ 00	A 95-30-00 ☐ 1SFL 43 1001 R8 ☐ 00	TA 110 DU ☐ 1SAZ 41 1201 R10 ☐	F
135	415	75					
98	690	90					
170	380-400	90	A 110-30-00 ☐ 1SFL 45 1001 R8 ☐ 00	A 95-30-00 ☐ 1SFL 43 1001 R8 ☐ 00	A 110-30-00 ☐ 1SFL 45 1001 R8 ☐ 00	TA 110 DU ☐ 1SAZ 41 1201 R10 ☐	G
182	415	100					
140	690	132					

(1) The setting current value is : motor rated current $I_n \times 0.58$.

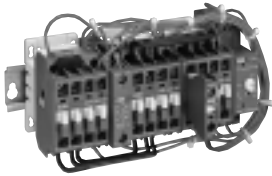
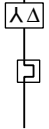
Required accessories

Ref. letter	Connection set Type Order code	KM1 Aux. contacts Type Order code	KM2 Aux. Contacts Type Order code	KM3 Aux. Contacts Type Order code	Timer Type Order code	Plate Type Order code
A	BED 16-1 1SBN 08 1403 R1001					-
B	BED 26-1 1SBN 08 2403 R1001	CA 5-10 1SBN 01 0010 R1010	CA 5-10 1SBN 01 0010 R1010	-	According to the control voltage (50/60Hz)	-
C	BED 40-1 1SBN 08 2803 R1001				24 V TE5S-24 1SBN 02 0010 R1001	-
D	BED 50-1 1SBN 08 3503 R1001	2 x CA 5-10 1SBN 01 0010 R1010	CA 5-10 1SBN 01 0010 R1010	CA 5-01 1SBN 01 0010 R1001	110...120 V TE5S-120 1SBN 02 0010 R1002	-
E	BED 75-1 1SBN 08 4103 R1001				220...240 V TE5S-240 1SBN 02 0010 R1003	-
F	BED 95 1 SFN 08 4303 R1000	2 x CA 5-10 1SBN 01 0010 R1010	1 x CA 5-10 1SBN 01 0010 R1010	CA 5-01 1SBN 01 0010 R1001	380...440 V TE5S-440 1SBN 02 0010 R1004	-
G	BED 110 1 SFN 08 4503 R1000		1 x CA 5-01 1SBN 01 0010 R1001			PN110-41 1SFN 09 4303 R1000
						PN110-41 1SFN 09 4303 R1000

YKA ..-30E Star-Delta Starters

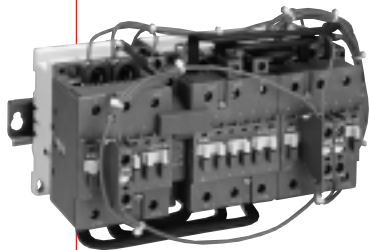
Open Type Version, with Interlock

Protection by Thermal O/L Relay



YKA 9-30 E

SB7827S4



YKA 75-30 E

SB7828S4

Application

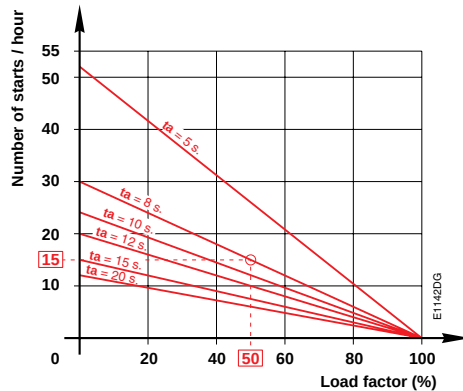
Starters for the control of three-phase asynchronous motors:

- in compliance with standard IEC 947-4-1,
- up to an operational voltage of 690 V, 50 or 60 Hz,
- air temperature close to contactors $\leq 55^{\circ}\text{C}$

Maximum duty as per the chart below.

(Switching frequency/hour, according to acceleration time and load factor).

Respect of the following conditions enables utilization of the starter without excessive overheating of the connections or nuisance tripping of the thermal O/L relay.



Example:

- Switching frequency = **15 starts/hr**
- Acceleration time "ta" = **7s** (use the 8 s curve)
- Maximum load factor = **50 %**

This corresponds to a 4-minute operating cycle (15 starts/hr) with 7 seconds acceleration, 2 minutes operation and 2 minutes rest.

Description

Each starter is delivered assembled, bare, cabled by us and contains:

- 1 KM1 "line" contactor,
 - 1 KM2 "star" contactor,
 - 1 KM3 "delta" contactor,
 - the hold-in contacts,
 - 1 "star" and "delta" contactor mechanical and electrical interlock device,
 - the space for the thermal O/L relay (direct mounting).
- The thermal O/L relay must be supplied separately for you to mount and connect in the "delta" circuit. The **setting current** value of the thermal O/L relay must be equal to **motor rated current I_n x 0.58**; choose the thermal O/L relay with the right setting range for the setting current in question.
- 1 TE5S electronic timer with time lapse,
 - the power circuit connections,
 - the control circuit connections.

The assembly is mounted on a mounting rail acc. to EN 50022:

- 35 x 7.5 mm for YKA 9 to YKA 26 types
- 35 x 15 mm for YKA 30 to YKA 75 types

Degree of protection: – IP20 for the main terminals of contactors A 9 ... A 40
 – IP10 for the main terminals of contactors A 50 ... A 75
 – IP20 for the control circuit terminals

>> Ordering details	page 2/11
>> Starters in kit form	page 2/16
>> Wiring diagrams	page 2/13

>> Accessories	page 2/12
>> Dimensions	page 2/14

YKA ..-30E Star-Delta Starters

Open Type Version, with Interlock

Protection by Thermal O/L Relay



2

Ordering details - (Order the thermal O/L relay separately, see page 2/12)

Rated operat. current AC-3 400 V A	Power AC-3 4-pole motor - 50/60 Hz 380 V			Short-circuit protection *		Type	Order code	Weight in kg
	400 V	415 V	690 V	Type 1 co-ordination as per EN 60947-4-1 / IEC 947-4-1 380-400 V				
	kW	kW	kW	aM fuses	gG fuses	State control voltage ☐	to be completed with control voltage code ☐	Packing 1 piece
15.5	7.5	7.5	5.5	16	25	YKA 9-30E ☐	1SBK 142 501R8 ☐ 00	1.655
22	11	11	7.5	25	35	YKA 12-30E ☐	1SBK 162 501R8 ☐ 00	1.655
30	15	15	11	32	50	YKA 16-30E ☐	1SBK 182 501R8 ☐ 00	1.655
44	22	22	15	50	63	YKA 26-30E ☐	1SBK 242 501R8 ☐ 00	2.162
50	25	25	18.5	63	100	YKA 30-30E ☐	1SBK 282 501R8 ☐ 00	3.167
72	37	37	37	80	100	YKA 40-30E ☐	1SBK 322 501R8 ☐ 00	3.178
85	45	45	45	100	125	YKA 50-30E ☐	1SBK 352 501R8 ☐ 00	4.197
105	55	55	59	125	160	YKA 63-30E ☐	1SBK 372 501R8 ☐ 00	4.203
119	63	70	63	160	200	YKA 75-30E ☐	1SBK 412 501R8 ☐ 00	4.544

* For other short-circuit protection devices, please consult our co-ordination tables

Control circuit

Designed for "separate control supply":

The star-delta starters are delivered with their control circuit not connected to the power circuit.
The control circuit supply is to be connected according to the wiring diagram when putting the starter into service.

Please consult us for "direct control supply".

Control voltage code

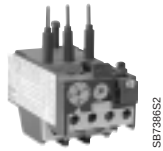
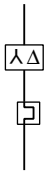
Voltage		Code	Control circuit
V 50 Hz	V 60 Hz		
24	24	1	must be connected
110	110 ... 120	4	– to a separate
110 ... 115	115 ... 120	9	supply
220 ... 230	230 ... 240	0	– or phase-to-phase
230 ... 240	240	8	– or phase-to-neutral
380 ... 400	400 ... 415	5	
400 ... 415	415 ... 440	6	
415 ... 440	440	7*	

* Unsuitable for YKA 50-30E ... YKA 75-30E starters.

YKA ..-30E Star-Delta Starters

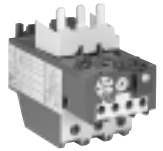
Open Type Version, with Interlock

Protection by Thermal O/L Relay



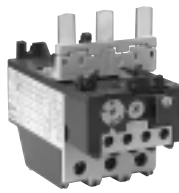
TA 25 DU

SB7386S2



TA 42 DU

SB7361S3



TA 75 DU

SB7387S2



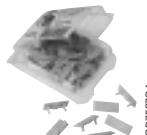
CAL 5-11

SB7379S1



CA 5-10

SB7603S1



BA 5-50

SB7537S4



LK 75-F

SB7577S3



DS 25 A

SST 205 91



DR 25 A

SST 204 91

Coil voltage code for DS 25-A/DR 25-A

Voltage (V) 50/60 Hz	Coil voltage code	
24	1	
48	2	
110	3	
220/380	5	
500	6	

Ordering details, thermal O/L relay

Starter	Setting range (1)	Type	Order code	Weight in kg Packing 1 piece
	A ... A			
YKA 9-30E	0.1 ... 0.16	TA 25 DU 0.16	1SAZ 21 1201 R1005	0.150
to	0.16 ... 0.25	TA 25 DU 0.25	1SAZ 21 1201 R1009	0.150
YKA 30-30E	0.25 ... 0.4	TA 25 DU 0.4	1SAZ 21 1201 R1013	0.150
	0.4 ... 0.63	TA 25 DU 0.63	1SAZ 21 1201 R1017	0.150
	0.63 ... 1.0	TA 25 DU 1.0	1SAZ 21 1201 R1021	0.150
	1.0 ... 1.4	TA 25 DU 1.4	1SAZ 21 1201 R1023	0.150
	1.3 ... 1.8	TA 25 DU 1.8	1SAZ 21 1201 R1025	0.150
	1.7 ... 2.4	TA 25 DU 2.4	1SAZ 21 1201 R1028	0.150
	2.2 ... 3.1	TA 25 DU 3.1	1SAZ 21 1201 R1031	0.150
	2.8 ... 4.0	TA 25 DU 4.0	1SAZ 21 1201 R1033	0.150
	3.5 ... 5.0	TA 25 DU 5.0	1SAZ 21 1201 R1035	0.150
	4.5 ... 6.5	TA 25 DU 6.5	1SAZ 21 1201 R1038	0.150
	6.0 ... 8.5	TA 25 DU 8.5	1SAZ 21 1201 R1040	0.150
	7.5 ... 11	TA 25 DU 11	1SAZ 21 1201 R1043	0.150
	10 ... 14	TA 25 DU 14	1SAZ 21 1201 R1045	0.150
	13 ... 19	TA 25 DU 19	1SAZ 21 1201 R1047	0.150
	18 ... 25	TA 25 DU 25	1SAZ 21 1201 R1051	0.150
	24 ... 32	TA 25 DU 32	1SAZ 21 1201 R1053	0.170
YKA 40-30E	18 ... 25	TA 42 DU 25	1SAZ 31 1201 R1001	0.330
	22 ... 32	TA 42 DU 32	1SAZ 31 1201 R1002	0.330
	29 ... 42	TA 42 DU 42	1SAZ 31 1201 R1003	0.330
YKA 50-30E	18 ... 25	TA 75 DU 25	1SAZ 32 1201 R1001	0.330
to	22 ... 32	TA 75 DU 32	1SAZ 32 1201 R1002	0.330
YKA 75-30E	29 ... 42	TA 75 DU 42	1SAZ 32 1201 R1003	0.330
	36 ... 52	TA 75 DU 52	1SAZ 32 1201 R1004	0.330
	45 ... 63	TA 75 DU 63	1SAZ 32 1201 R1005	0.330
	60 ... 80	TA 75 DU 80	1SAZ 32 1201 R1006	0.330

(1) The setting current value is the motor rated current $I_n \times 0.58$

Example: For a motor rated current of 30 A, the setting current will be $30 \text{ A} \times 0.58 = 17.4 \text{ A}$.

Choose the thermal O/L relay TA 25 DU 19 - setting range 13 ... 19 A.

Ordering details, contactors accessories

Description	Type	Order code	Pack- ing	Weight in kg
Function markers (50 pieces)	BA5-50	1 SBN 11 0000 R1000	box	0.017
1 x "N.O." auxiliary contact block	CA5-10	1 SBN 01 0010 R1010	10	0.014
1 x "N.C." auxiliary contact block	CA5-01	1 SBN 01 0010 R1001	10	0.014
"N.O."+"N.C." side-mntd cont. blk	CAL5-11	1 SBN 01 0020 R1011	2	0.050
Control lead terminals (A 50 ... A 75)				
Right/left connection	LK 75-L	1 SBN 07 3552 R1003	2	0.006
Front connection	LK 75-F	1 SBN 07 3552 R1002	2	0.006

Ordering details, thermal O/L relay accessories

Description	Type	Order code	Pack- ing	Weight in kg
Function markers (50 pieces)	BA5-50	1 SBN 11 0000 R1000	box	0.017
Remote tripping coil for TA 25 DU	DS 25-A- ☐	1 SAZ 20 1501 R000 ☐	1	0.100
Remote resetting coil for TA 25 DU	DR 25-A- ☐	1 SAZ 20 1504 R000 ☐	1	0.100

2



F1147D



E1148D

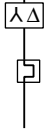


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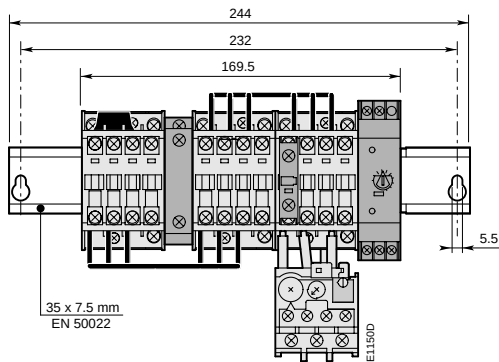
YKA ..-30E Star-Delta Starters

Open Type Version, with Interlock

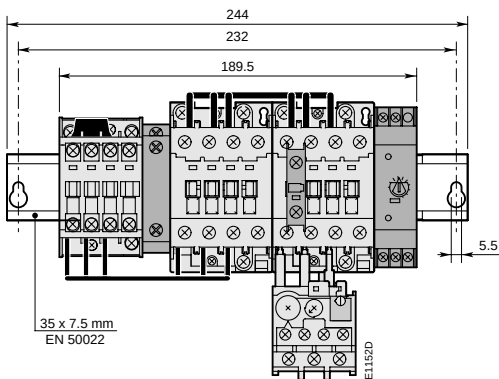
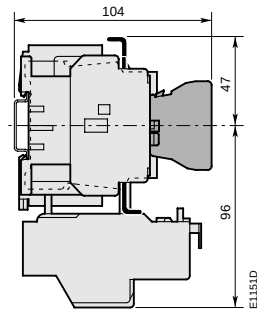
Protection by Thermal O/L Relay



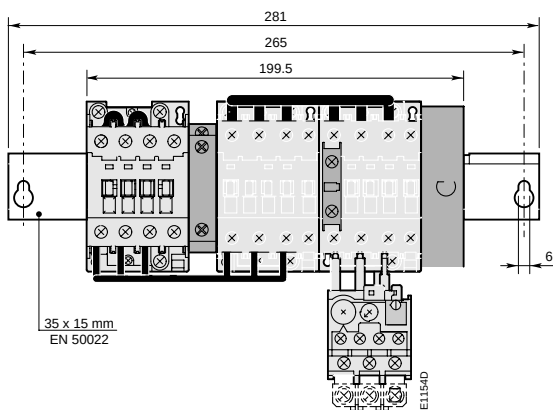
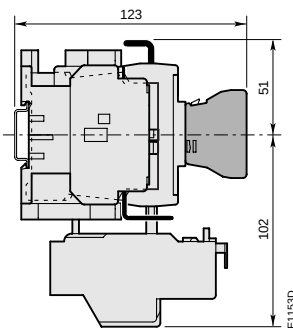
Dimensions (in mm)



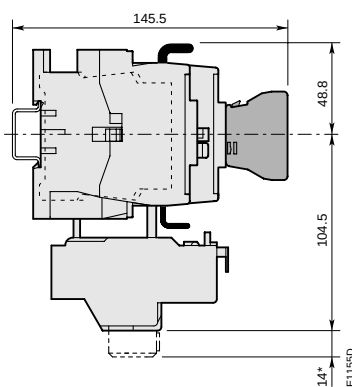
YKA 9-30E ... YKA 16-30E + TA 25



YKA 26-30E + TA 25



YKA 30-30E + TA 25

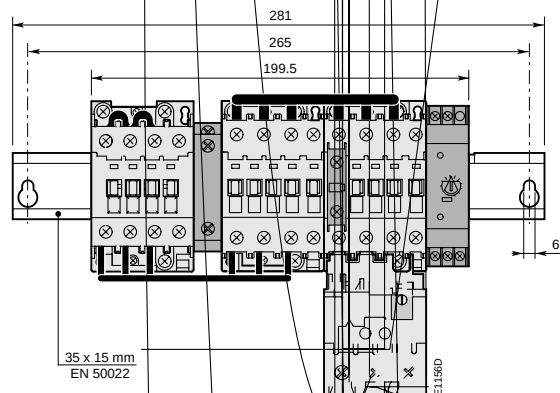


* for TA 25 DU 32 only

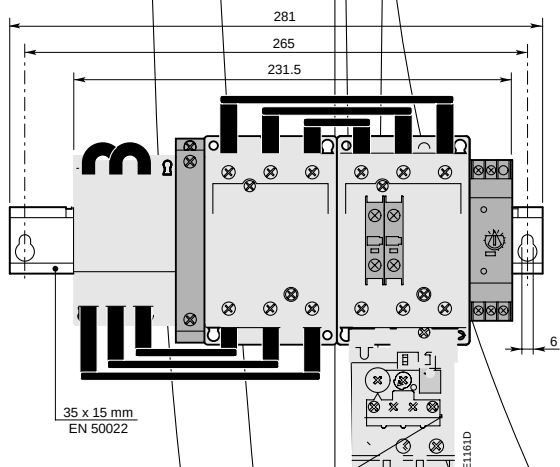
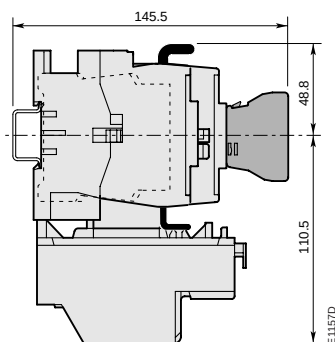
YKA ..-30E Star-Delta Starters Open Type Version, with Interlock Protection by Thermal O/L Relay



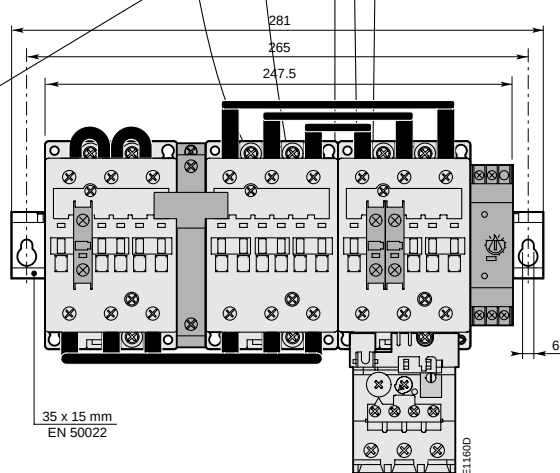
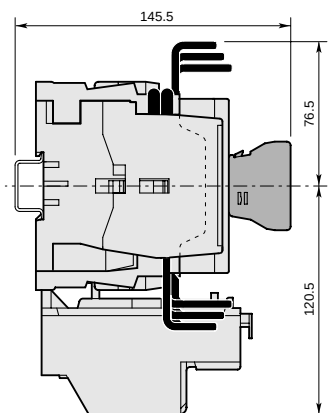
Dimensions (in mm)



YKA 40-30E + TA 42



YKA 50-30E ... YKA 63-30E + TA 75



YKA 75-30E + TA 75

